

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: Unknown
Intl. Appl. No.: PCT/GB97/02226
Filed: Herewith
Inventor(s):
Tony Whitley

Examiner: Unknown
Group/Art Unit: Unknown
Atty. Dkt. No: 5496-00400

CERTIFICATE OF EXPRESS MAIL
UNDER 37 C.F.R. §1.10

"Express Mail" mailing label number: EL493675030US
DATE OF DEPOSIT: February 18, 2000

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. §1.10 on the date indicated above and is addressed to:

Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

Debra J. Tix
Debra J. Tix

Title: COMMUNICATION
APPARATUS AND
METHOD FOR LOCATING
STORED ENTRIES IN AN
ELECTRONIC
TELEPHONE DIRECTORY

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. § 371

INTERNATIONAL APPLICATION NO.: PCT/GB97/02226
INTERNATIONAL FILING DATE: August 20, 1997
PRIORITY DATE CLAIMED: August 20, 1997
U.S. APPLICATION NO. (If known):

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

- ☒ This is a FIRST submission of items concerning a filing under 35 U.S.C. § 371.
- ☐ This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. § 371.
- ☐ This is an express request to begin national examination procedures (35 U.S.C. § 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. § 371(b) and PCT Articles 22 and 39(l).
- ☐ A translation of the International Application into English (35 U.S.C. § 371(c)(2)), including:
a title page; ___ page(s) of specification; ___ page(s) of claims ____; ___ page(s) of abstract.
☐ Verification of Translation (___ page).
- ☒ Drawings
☒ Informal Figure(s) 1-3 on 3 sheet(s).

6. ☒ A copy of the International Application as filed (35 U.S.C. § 371(c)(2))
☒ including a title page, 7-page specification, 3 pages of claims (Claims 1-12), and a one-page abstract
☐ has been transmitted by the International Bureau.
☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. § 371(c)(3))
☒ are transmitted herewith (required only if not transmitted by the International Bureau) (3 pages).
☐ have been transmitted by the International Bureau.
☐ have not been made; however, the time limit for making such amendments has NOT expired.
☐ have not been made and will not be made.
8. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. § 371(c)(3)).
9. ☒ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
☒ A copy of the Demand for International Preliminary Examination is enclosed (3 pages).
☒ A copy of the Notification of Receipt of Demand is enclosed (1 page).
10. ☒ An oath or declaration of the inventor(s) (35 U.S.C. § 371(c)(4)):
☐ is enclosed (____ pages).
☐ a combined Declaration and Power of Attorney is enclosed (2 pages).
☒ is not enclosed. Applicant requests the Patent and Trademark Office to accept this application and accord a serial number and filing date as of the date this application is deposited with the U.S. Postal Service for Express Mail. Further, Applicant requests that the NOTICE OF MISSING PARTS-FILING DATE GRANTED be sent to the undersigned representative of Applicant.
11. ☒ Applicant hereby claims priority to:
☒ International Application No.: PCT/GB97/02226 filed August 20, 1997.
☐ Country Application No.: _____ filed _____.
12. ☐ A translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. § 371(c)(5)).
13. ☒ The entire disclosure of the International Application referred to above is considered to be part of the accompanying application and is hereby incorporated by reference herein.
14. ☐ Assignment Papers.
☐ An assignment document is enclosed for recording (____ pages).
☐ Form PTO-1595 Assignment Recordation Cover Sheet (1 page).
15. ☒ A Preliminary Amendment (7 pages).
16. ☐ A substitute specification for pages ____ (____ pages).
17. ☐ Power of Attorney
☐ Is enclosed.
☐ a combined Declaration and Power of Attorney is enclosed.
18. ☐ Information Disclosure Statement (IDS), including:
☐ Form PTO-1449
☐ Reference(s) marked according to Form PTO-1449.
19. ☒ Return Receipt Postcard

430 Rec'd PCT/PTO 09/486315
18 FEB 2000

20. ☐ Small Entity Status
☐ A small entity statement is enclosed.
21. ☒ Copy of PCT Form PCT/IB/301.
☒ Original mailed September 17, 1997 (2 pages)
☒ Corrected version mailed October 3, 1998 (2 pages)
22. ☐ Copy of PCT Form PCT/IB/304.
23. ☒ Copy of PCT Form PCT/IB/307 (1 page).
24. ☒ Copy of PCT Form PCT/IB/308 (1 page).
25. ☒ Copy of PCT Form PCT/IB/332 (1 page).
26. ☐ Copy of PCT Form PCT/IB/338
27. ☒ Copy of International Request (3 pages).
28. ☒ The following fees are submitted:

BASIC NATIONAL FEE (37 CFR § 1.492 (a) (1)-(5):

- ☐ Neither international preliminary examination fee nor international search fee paid to USPTO and International Search Report not prepared by the EPO or JPO.....\$970.00
- ☒ International preliminary examination fee not paid to USPTO but International Search Report prepared by the EPO or JPO.....\$840.00
- ☐ International preliminary examination fee not paid to USPTO but international search fee paid to USPTO.....\$760.00
- ☐ International preliminary examination fee paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4).....\$670.00
- ☐ International preliminary examination fee paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4).....\$96.00

ENTER APPROPRIATE BASIC NATIONAL FEE AMOUNT (as selected above): 840.00

Surcharge of \$130.00 for furnishing oath or declaration later than ☐ 20 ☐ 30
Months from the earliest claimed priority date (37 C.F.R. § 1.492(e)).

CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE
Total claims	18 - 20 =	0	x \$18.00 =
Independent claims	2 - 3 =	0	x \$78.00 =
MULTIPLE DEPENDENT CLAIM(S)			+ \$260.00 =

TOTAL OF ABOVE CALCULATIONS: 840.00

Reduction by 50% for Small Entity. A Small Entity Statement must be filed:

SUBTOTAL: 840.00

Processing fee of \$130.00 for furnishing the English translation later than ☐ 20 ☐ 30
Months from the earliest claimed priority date:

TOTAL NATIONAL FEE: 840.00

Fee for recording the enclosed assignment. The assignment must be accompanied by an appropriate cover sheet. \$40.00 per property:

TOTAL FEES ENCLOSED: 840.00

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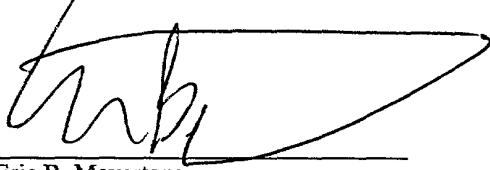
☒ A check in the amount of \$840.00 is enclosed.

☐ Please charge my Deposit Account No. 03-2769/ in the amount of to cover the above fees.

☒ The Commissioner is hereby authorized to charge any other fees which may be required or credit any overpayment to Conley, Rose, & Tayon, P.C., Deposit Account No. 03-2769/5496-00400/EBM.

Address all future correspondence to:
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Phone: (512) 476-1400 Fax: (512) 703-1250

Signature



Name

Eric B. Meyertons

Registration No.

34,876

Date

February 18, 2000

09/486315-03-2769

PATENT

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 Debra J. Tix

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Please amend the above-captioned application as follows:

In the Specification:

On page 1, line 7, before “The invention”, please add:

--BACKGROUND OF THE INVENTION

1. Field of Invention--.

On page 1, line 7, after “invention”, please add the word --generally--.

On page 1, line 16, before “The devices”, please add --2. Description of the Related Art--.

On page 2, line 6, before "This objective", please add --SUMMARY OF THE INVENTION--.

On page 2, line 18, before "method", please delete the word "inventive".

On page 3, line 15, before "Several", please add -- BRIEF DESCRIPTION OF THE DRAWINGS--.

On page 3, line 28, before "The method", please insert --DETAILED DESCRIPTION OF THE INVENTION--.

On page 3, line 28, after method, please replace the phrase "of the invention can" with the word --may--.

After the text on page 10, please add the following paragraph:

--Further modifications and alternative embodiments of various aspects of the invention will be apparent to those skilled in the art in view of this description. Accordingly, this description is to be construed as illustrative only and is for the purpose of teaching those skilled in the art the general manner of carrying out the invention. It is to be understood that the forms of the invention shown and described herein are to be taken as the presently preferred embodiments. Elements and materials may be substituted for those illustrated and described herein, parts and processes may be reversed, and certain features of the invention may be utilized independently, all as would be apparent to one skilled in the art after having the benefit of this description of the invention. Changes may be made in the elements described herein without departing from the spirit and scope of the invention as described in the following claims.--

In the Abstract:

On page 11, line 12, before "a name field", please replace the word "comprising" with the word --includes--.

On page 11, line 13, after "field", please replace the phrase "comprises the steps of" with the word --includes--.

In the Claims:

Please amend the claims as follows:

1. (Amended) A method for locating stored entries in an electronic directory, said directory containing a plurality of entries each comprising a name field and an associated telephone and/or telefax number field, said method comprising [the steps of]:

[a)] receiving information concerning a predefined number of characters of a name,
[b)] identifying all entries in said directory whose name fields match said information,[and]
displaying at least some of the identified entries to a user,

[c)] wherein if more than one entry has been identified [in step b)], receiving further information to locate a single entry from the identified entries,

[characterized by the following sub steps being performed if more than one entry has been identified in step b):

b1) displaying at least some of the identified entries to a user,]

[c1) receiving said further information,] wherein said further information comprises information regarding the selection of one of the displayed entries by the user[,

c2) receiving further] or information concerning a predefined number of further characters of said name, and

[c2)] identifying all entries in said directory whose name fields match all the information and further information received [so far].

2. (Amended) The method of claim 1, [wherein steps c2) and c3) are repeated] further comprising repeatedly receiving further information until one entry in said directory is uniquely determined.
3. (Amended) The method of [claims 1 or 2, wherein the user is prompted] claim 1, further comprising prompting the user to enter further information as long as more than one entry in said directory is identified [in step b) and/or in step c3)].
4. (Amended) The method of [one of the claims 1 to 3] claim 1, wherein said predefined number of characters [in step a)] is one, two, three or four.
5. The method of [one of claims 1 to 4] claim 1, wherein said predefined number of further characters [in step c2)] is one.
6. The method of [one of claims 1 to 5] claim 1, wherein said information received [in step a) and/or in step c2)] comprises a plurality of key indications, each key indication corresponding to one character of said predefined number of characters.
9. A communication apparatus comprising an electronic directory, said directory containing a plurality of entries each comprising a name field and an associated telephone and/or telefax number field, [in particular a telephone apparatus,] being capable of carrying [our] out the method [recited in one of claims 2 to 8] comprising:
- receiving information concerning a predefined number of characters of a name,
- identifying all entries in said directory whose name fields match said information,

displaying at least some of the identified entries to a user, wherein if more than one entry has been identified, receiving further information to locate a single entry from the identified entries, wherein said further information comprises information regarding the selection of one of the displayed entries by the user or information concerning a predefined number of further characters of said name, and

identifying all entries in said directory whose name fields match all the information and further information received.

10. The apparatus recited in claim 9, comprising means for locating said stored entries [in an electronic directory, said directory containing a plurality of entries each comprising a name field and an associated telephone and/or telefax number field, said apparatus comprising:]

- means for receiving said information concerning a predefined number of characters of a name,
- identifying means for identifying said all entries in said directory whose name fields match said information, and
- means for receiving said further information to locate a single entry from the identified entries, if more than one entry has been identified by said identifying means.

Please add the following claims:

--11. The apparatus recited in claim 9, wherein the method further comprises repeatedly receiving further information until one entry in said directory is uniquely determined.--

--12. The apparatus recited in claim 9, wherein the method further comprises prompting the user to enter further information as long as more than one entry in said directory is identified.--

--13. The apparatus recited in claim 9, wherein said predefined number of characters is one, two, three or four.--

--14. The apparatus recited in claim 9, wherein said predefined number of further characters is one.--

--15. The apparatus recited in claim 9, wherein said information received comprises a plurality of key indications, each key indication corresponding to one character of said predefined number of characters.--

--16. The apparatus recited in claim 9, wherein each key indication matches a set of characters.--

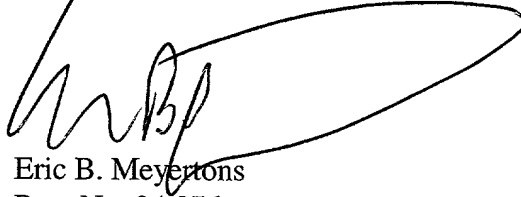
--17. The apparatus recited in claim 9, wherein each key indication corresponds to a keypress on a numeric keypad.--

--18. The apparatus recited in claim 9, wherein the communication apparatus comprises a telephone.--

Tony Whitley

It is believed that no fees are due in connection with the filing of this Preliminary Amendment. However, if any fees are due, the Assistant Commissioner is hereby authorized to deduct said fees from Conley, Rose & Tayon Deposit Account No. 03-2769/5496-00400/EBM.

Respectfully submitted,



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Date:

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The invention concerns a method for locating stored entries in an electronic directory and a communication apparatus. The method may be performed by any type of communication apparatus, which comprises telephones, facsimile machines, computers, electronic organizers and other devices. The method is especially suited to be incorporated in telephones of all kinds, such as mobile telephones, office desk phones, private branch exchange operator consoles and so on.

The devices mentioned above typically comprise an electronic directory in which a plurality of entries is stored. Each entry contains the name of a person or institution, associated telephone and/or telefax numbers and possibly further information.

It is known to access such an electronic directory by entering a name of a person or institution to be called. This name is then searched automatically in the directory, and the corresponding telephone and/or telefax numbers are indicated and may be dialled. This method, however, is quite inconvenient since the exact name must be entered. This is error-prone and does not yield a result if the user does not remember the name exactly. Furthermore, the name to be entered may be quite long, such that a considerable amount of typing may be involved.

It is also known display the complete list of entries in the directory. The user may scroll through the list and may select an appropriate entry using cursor keys. This method is not suitable if many entries are stored in the directory.

Consequently, the invention has the objective to solve the above-mentioned problems and to provide means which enable a user to easily find stored entries in an electronic directory.

5

This objective is solved by a method having the features of claim 1 and by a communication apparatus having the features of claim 11. The term "name" as used herein is to be interpreted as comprising all kinds of information which may
10 serve to identify a person, institution or any other entity to be called. A name may comprise several parts, e.g. a first name, a last name, a title, and so on. Correspondingly, the name field may be divided into subfields for storing these parts. During the identification step, the
15 entered information may be matched to all subfields of the name fields or only to a selected subset thereof.

The inventive method and apparatus allow the user to search and find a desired entry in the database even if only
20 information concerning a part of the name to be called is entered. This is very convenient. The user may search for names which he does not remember completely. Only very few keypresses are required.

25 In preferred embodiments, the information entered initially by the user corresponds to one, two, three or four characters of the name to be searched. As soon as this predetermined amount of information is entered, it is preferably determined whether an entry in the directory is uniquely
30 specified.

If there are multiple matches, they are preferably shown to the user, who may scroll through the list and select the correct one manually. In other preferred embodiments, the
35 user may be prompted to enter further information about the searched entry, in particular information about further characters in the name field. These two approaches may also

be combined by giving the user the choice of entering further information or selecting one of the currently shown entries.

- 5 In order to enter information about the searched entry, the user preferably presses keys on a numeric keypad. Each of these keys may correspond to one digit and a predefined set of characters. For example, one key may be labelled "8TUV" and may match the characters "T", "U" and "V" in an entry of
10 the directory.

Further preferred embodiments of the invention are recited in the dependent claims.

- 15 Several sample embodiments of the invention will now be described in more detail with reference to the drawings, in which:

- Fig. 1 shows a block diagram of a telephone apparatus
20 according to the present invention,

Fig. 2 shows a flow diagram according to a first embodiment of the method of the invention, and

- 25 Fig. 3 shows a flow diagram according to a second embodiment of the method of the invention.

The method of the invention can be performed using any communication apparatus which has a display, a keyboard and a
30 suitable control unit for storing and maintaining a directory. The keyboard may be a numeric keypad. In the sample embodiments described herein, a GSM mobile telephone is employed. The telephone is shown in Fig. 1. It includes a high frequency unit 10 for sending and receiving radio
35 frequency over an antenna 12, and an audio frequency unit 14 coupled to the high frequency unit 10 as well as to a speaker 16 and a microphone 18. A processing unit 20 is

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coupled to the high frequency unit 10, the audio frequency unit 14, a memory 22, a numeric keypad 24, a visual LCD display 26 and a ring tone generator 28. On each key of the keypad 24, one digit and three characters of the alphabet are indicated. In other words, a key indication, which signifies that a certain key on the numeric keypad 24 has been pressed, will match any of the characters indicated on the key.

The directory is stored in the memory 22. It contains a plurality of entries, each having a name field and an associated telephone number field. Each name field is divided into two subfields for holding a first name and a last name, respectively. The following table gives an example of such a directory, which will be used in the subsequent description:

first name	last name	telephone #
SAM	WHITE	09876-54321
TONY	WHITLEY	01234-56789
...

In the telephone shown in Fig. 1, the numeric keypad 24, the processing unit 20 and the memory 22 form means for receiving information concerning a predefined number of characters of a name and means for receiving further information to locate a single entry from a set of identified entries. The processing unit 20 and the memory 22 form identifying means for identifying entries in the directory stored in the memory 22. The processing unit 20, the memory 22, the keypad 24 and the display 26 together form means for locating stored entries in the directory.

In a first sample embodiment of the method of the present invention, which is shown in Fig. 2, exactly three keys on the keypad 24 are pressed in order to provide information

concerning the first three letters of the first name subfield or the last name subfield. The corresponding key indications are received (box 30) and the directory is searched for entries with matching name fields (box 32). It is then determined whether an entry has been uniquely identified (box 34). If this is the case, the telephone number stored in this entry is dialled either automatically or by pressing a special dialling key or by selecting an appropriate menu option (box 40).

For example, pressing the keys labelled "8TUV", "6MNO" and "6MNO" in this order will uniquely match the character sequence "TON" in the first name field and will cause the number 01234-56789 to be recalled and dialled. If the entry "SAM WHITE" was not present in the sample directory, pressing the key sequence "9WXY", "4GHI" and "4GHI" would also recall the number 01234-56789 since this sequence would uniquely match "WHI" in the last name field.

In the sample directory shown above, however, pressing the key sequence "9WXY", "4GHI" and "4GHI" will match both entries. This is not very likely in a small directory, but it may happen. As a result, the two matching names (and any other matching names which may have been found in the directory) are shown on the display 26 (box 36). The user may scroll through these names using the cursor keys of the telephone, and may select the correct name by pressing an enter key (box 38). The number associated with this name is then dialled in the way described above (box 40).

Instead of scrolling through the list, the user may also press further digit keys to enter information about the subsequent characters of the names. After each further keypress, the list of matching names is updated by the telephone. The user may continue typing further digit keys until an entry is uniquely identified, or he may at any point decide to select one of the shown entries manually.

In an alternative embodiment, which is especially suited for telephones with small displays, no list of matching names is shown if the name has not yet been uniquely identified.

5 Instead, the user receives an indication that further information, i.e. further keypresses, are necessary in order to fully identify the name. The method of this embodiment is shown in Fig. 3, in which boxes 30, 32, 34 and 40 are the same as described above. Box 42 signifies the pressing of
10 one further key. Box 44 denotes a searching process similar to that of box 32 with the exception that all information entered so far by the user is taken into account.

15 In further alternative embodiments, the number of keys to be pressed before the search commences is different from three. In particular, this number may be one. Then a list of matching names is shown and updated after every single keypress.

20 In yet further alternative embodiments, it may be necessary to start the searching process by some special action, for example by pressing a key labelled "RECALL" or by choosing a corresponding menu item. This may be necessary because the search may be quite slow when a large database has to be inspected by a limited capacity processor.

25 The "RECALL" key may also be used to distinguish dialling a number from accessing the directory. For example, the key sequence "9WXY", "4GHI" and "4GHI" may either signify that the user wants to dial the telephone number 944, or that he
30 wants to search for a directory entry. Consequently, the user may be required to press either a "DIAL" key or the "RECALL" key after entering the above key sequence such that the appropriate action can be performed.

35 In alternative embodiments, the telephone can be put into a search mode by pressing the "RECALL" key before entering the search term. For example, the key sequence "RECALL", "9WXY",

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"PORT 20" 51E98460

"4GHI" and "4GHI" may be used to initiate a search. This special search mode is especially useful if the list of results is updated in response to every single keypress.

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"PORT 40" GET 88460

HKT 34

Claims

5

1. A method for locating stored entries in an electronic directory, said directory containing a plurality of entries each comprising a name field and an associated telephone and/or telefax number field, said method comprising the steps of:

10

a) receiving information concerning a predefined number of characters of a name,

b) identifying all entries in said directory whose name fields match said information, and

15

c) if more than one entry has been identified in step b), receiving further information to locate a single entry from the identified entries,

characterized by the following sub steps being performed if more than one entry has been identified in step b):

20

b1) displaying at least some of the identified entries to a user,

c1) receiving said further information, wherein said further information comprises information regarding the selection of one of the displayed entries by the user,

25

c2) receiving further information concerning a predefined number of further characters of said name, and

c2) identifying all entries in said directory whose name fields match all the information received so far.

30

2. The method of claim 1, wherein steps c2) and c3) are repeated until one entry in said directory is uniquely determined.

35

3. The method of claims 1 or 2, wherein the user is prompted to enter further information as long as more than one entry in said directory is identified in step b) and/or in step c3).

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4. The method of one of the claims 1 to 3, wherein said predefined number of characters in step a) is one, two, three or four.

5 5. The method of one of the claims 1 to 4, wherein said predefined number of further characters in step c3) is one.

6. The method of one of claims 1 to 5, wherein said information received in step a) and/or in step c2) comprises a
10 plurality of key indications, each key indication corresponding to one character of said predefined number of characters.

7. The method of claim 6, wherein each key indication
15 matches a set of characters.

8. The method of claim 7, wherein each key indication corresponds to a keypress on a numeric keypad.

20 9. A communication apparatus, in particular a telephone apparatus, being capable of carrying out the method recited in one of claims 2 to 8.

10. The apparatus recited in claim 9,
25 comprising means for locating stored entries in an electronic directory, said directory containing a plurality of entries each comprising a name field and an associated telephone and/or telefax number field, said apparatus comprising:

- 30 - means for receiving information concerning a predefined number of characters of a name,
- identifying means for identifying all entries in said directory whose name fields match said information, and
- means for receiving further information to locate a
35 single entry from the identified entries, said receiving means being operated if more than one entry has been identified by said identifying means, wherein

AMENDED SHEET

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- 10 -

- displaying means are provided for displaying at least some of the identified entries to a user, if more than one entry has been identified by said identifying means,

- said receiving means being capable of receiving said

5 further information comprising information regarding the selection of one of the entries displayed by said displaying means, whereby said further information comprises a predefined number of further characters of said name, and

- said identifying means being capable of identifying of

10 entries in said directory whose name fields match all the information received so far.

FOET 20 " 9 F E 3 4 5 0

1/3

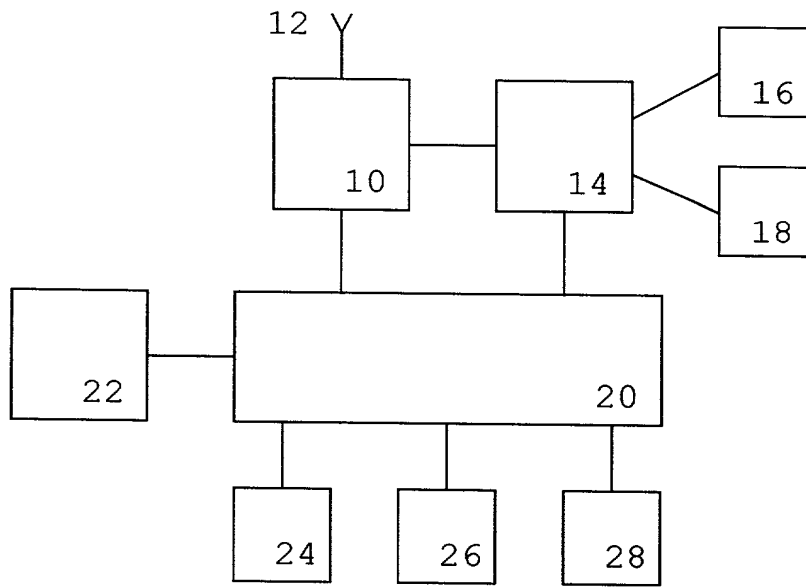


Fig. 1

2/3

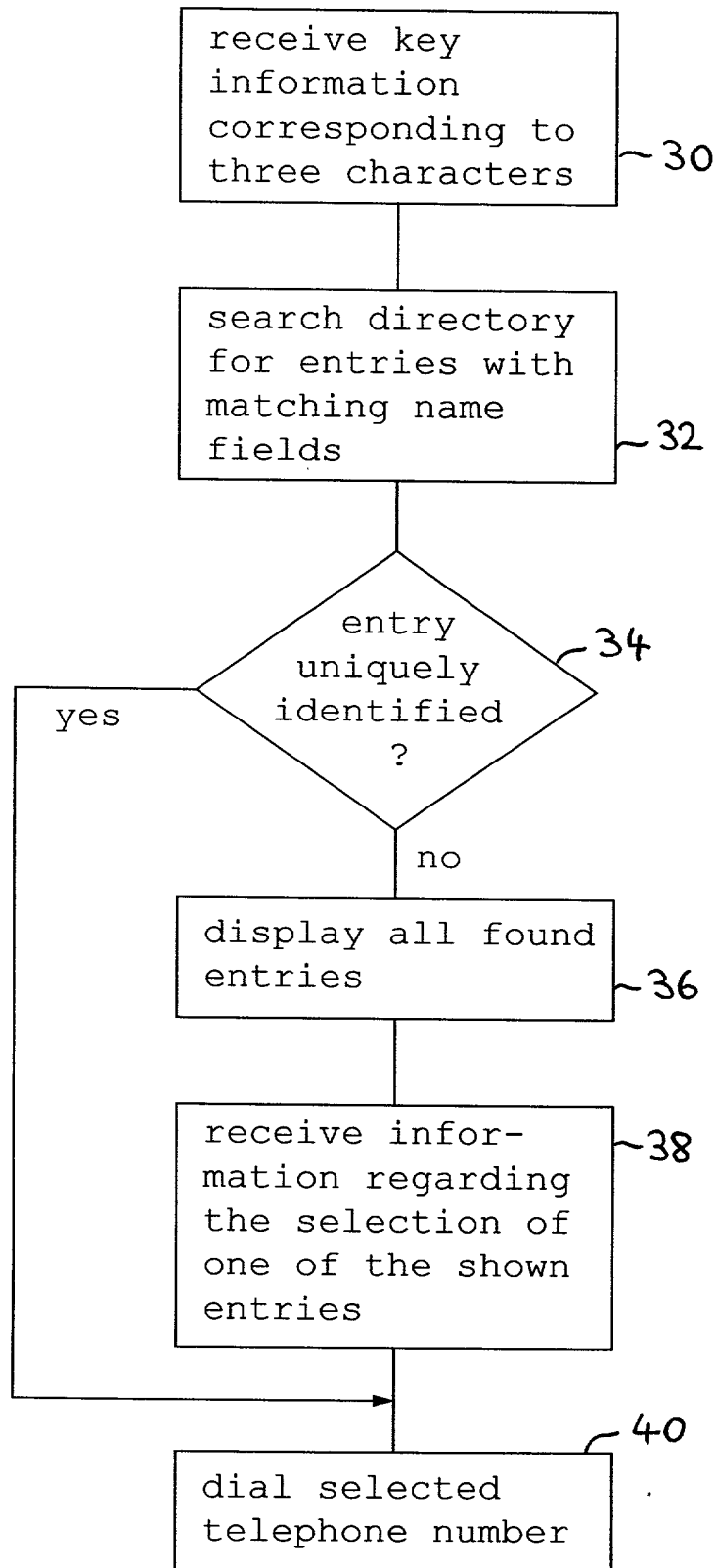


Fig. 2

3/3

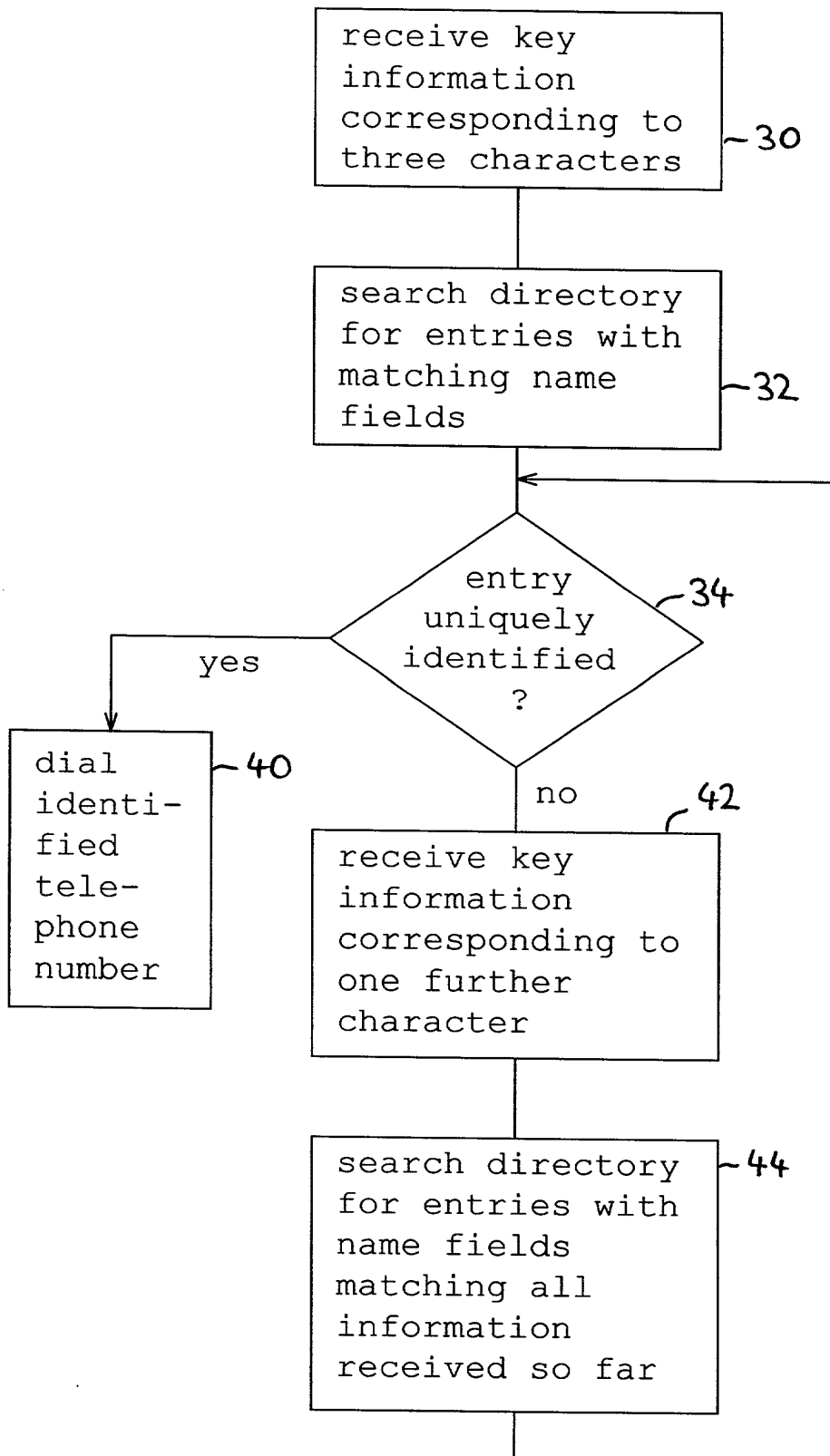


Fig. 3

DECLARATION

As a below named inventor, I hereby declare that:

My residence, post office and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or the below named inventors believe they are the original, first and joint inventors (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled "COMMUNICATION APPARATUS AND METHOD FOR LOCATING STORED ENTRIES IN AN ELECTRONIC TELEPHONE DIRECTORY," the specification of which:

_____ is attached hereto.

X was filed on February 18, 2000 as Application Serial No. 09/486,315.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the Patent and Trademark Office all information known to me to be material to patentability of the subject matter claimed in this application, as "materiality" is defined in Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

PRIOR FOREIGN APPLICATION(S)

			<u>Priority Claimed</u>
<u>PCT/GB97/02226</u> (Number)	<u>PCT</u> (Country)	<u>August 20, 1997</u> (Date Filed)	Yes
<u>N/A</u> (Number)	<u></u> (Country)	<u></u> (Date Filed)	Yes/No

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose all information known to me to be material to the patentability of the subject matter claimed in this application, as "materiality" is defined in Title 37, Code of Federal Regulations, § 1.56, which become available between the filing date of the prior application and the national or PCT international filing date of this application:

<u>N/A</u> (Application Serial No.)	<u></u> (Filing Date)	<u></u> (Status)
<u>N/A</u> (Application Serial No.)	<u></u> (Filing Date)	<u></u> (Status)

Whitely

I hereby claim the benefit under title 35, United States code §119(e) of any United States provisional application(s) listed below:

(Application Serial No.)

(Filing Date)

(Application Serial No.)

(Filing Date)

Please direct all communications as follows:

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I hereby declare that all statements made of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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